



# Certificate of Compliance

**Certificate:** 1332949

**Master Contract:** 215780

**Project:** 2578811

**Date Issued:** February 26, 2013

**Issued to:** Load Systems International Inc.  
4495 boul Wilfrid-Hamel, Suite 110  
Quebec, QC G1P 2J7  
Canada  
Attention: Normand Labrie

*The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.*



*Ron Wildish*

**Issued by:** Ron Wildish

## **PRODUCTS**

**CLASS 2258 03** - PROCESS CONTROL EQUIPMENT - Intrinsically Safe and Non - Incendive Systems - For Hazardous Locations

**CLASS 2258 83** - PROCESS CONTROL EQUIPMENT-Intrinsically Safe and Non-Incendive - Systems-For Hazardous Locations-Certified to U.S. Standards

**CLASS 2258 03, CLASS 2258 83**

**Class I, Groups A, B, C and D**

### **LS Product Series:**

Load Sensors, Models: Load - 4K, Load -12K, Load - 18K, Load - 30K, Load – 35K, Load - 50K, Load – 60K, Load - 100K & Load - 170K; (respectively part numbers LC004, LC012, LC018, LC030, LC035, LC050, LC060, LC100 & LC170); Intrinsically Safe; Battery operated (Three Cells, see batteries list below), rated 4.5V; Temperature Code T4.

Angle Sensor, Model: Angle, (part number LS010); Intrinsically Safe; Battery operated (Three Cells, see battery list below), rated 4.5V; Temperature Code T4.

Wind Speed Indicator, Model: Wind Sensor, (part number LS020); Intrinsically Safe; Battery operated (Three Cells, see batteries list below), rated 4.5V; Temperature Code T4



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Switch Sensor, Model: A2B, (part number LS050); Intrinsically Safe; Battery operated (Four Cells, see batteries list below), rated 6.0V; Temperature Code T4.

**Batteries List**

Battery Type	Part number	Manufacturer	Voltage per cell
C	4014	Varta	1.5V
C	PC1400	Duracell	1.5V

**GS Product Series:**

Load Sensors, Models:GC005-CSA, GC012-CSA, GC018-CSA, GC035-CSA, GC060-CSA, GC100-CSA & GC170-CSA, GC250-CSA, GC300-CSA, GC400-CSA and GC600-CSA; Intrinsically Safe; Battery operated (One “D” Cell, see batteries list below), rated 3.6V; Temperature Code T4.

Load Transmitters, Models:GS001-CSA, GS001-xx-CSA, GS002-CSA, GS002-xx-CSA and GS007-xx-CSA; Intrinsically Safe; Battery operated (One “D” Cell, see batteries list below), rated 3.6V; Temperature Code T4.

Slew Angle Sensor Transmitter, Model GS030-CSA; Intrinsically Safe; Battery operated (One “D” Cell, see battery list below) rated 3.6V; Temperature Code T4

A2B Wired Transmitter, Model: GS005-CSA, GS005-CSA-01 and GS005-xx-CSA; Intrinsically Safe; Battery operated (One “D” Cell, see batteries list below), rated 3.6V; Temperature Code T4.

Angle Sensors, Models: GS010-XX-CSA; Intrinsically Safe; Battery operated (One “D” Cell, see batteries list below), rated 3.6V; Temperature Code T4.

Angle Length Sensor, Model: GS011-XX-CSA; Intrinsically Safe; Battery operated (One “D” Cell, see batteries list below), rated 3.6V; Temperature Code T4.

Wind Speed Sensor, Model: GS020-CSA; Intrinsically Safe; Battery operated (One “D” Cell, see batteries list below), rated 3.6V; Temperature Code T4.

A2B Sensor, Model: GS050-CSA; Intrinsically Safe; Battery operated (Four “C” Cells, see batteries list below), rated 6.0V; Temperature Code T4.

A2B Sensor, Model GS075-CSA and GS075-B-CSA, Intrinsically Safe, Battery operated (One “D” Cell, see batteries list below), rated 3.6V; Temperature Code T4

Slew Angle Sensor, Model GS031-CSA; Intrinsically Safe, used in combination with GS030-CSA, powered by GS030-CSA

**Battery List**

Battery Type	Part number	Manufacturer	Voltage per cell
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D	TL-5930	Tadiran	3.6V
D	LS33600	Saft	3.6V
C	PC1400	Duracell	1.5V

The variable «-CE» could be add at the end of each model, it indicates Europe's product.

### **CLASS 2258 02; CLASS 2258 82**

#### **Class I, Division 2, Groups A, B, C and D**

##### **LS Product Series:**

Display unit, Model LS420, Model LS425; Rated input 12Vdc, 500mA max.

Relay Junction Box, Model LS089; Rated 10-30VDC, relay outputs 8A max per line (25A max combined).  
Temperature Code T3C

##### **GS Product Series:**

Display unit, Models: GS550-CSA, GS550-07-CSA, GS550-08-CSA, GS550-09-CSA, GS550-10-CSA, GS820-CSA, GS820-02-CSA, GS820-06-CSA and GS820-12-CSA; Rated input 10-30Vdc, 1.0A max.

Note: Ouput devices and /or equipment connected to "Display units" shall be rated Class I Div2 and confined within the crane cabin

.Wireless Gateway Unit, Models: GS220-xx-CSA, GS221-xx-CSA, GS222-xx-CSA; Rated input 10-30VDC, 0.5A; Ambient temperature range -40°C to +85°C; Temperature Code T4

Note: Output devices and/or equipment cnnected to "Gateway Units" shall be reated Class I Div 2 and confined within the crane cabin.

The variable «-CE» could be add at the end of each model, it indicates Europe's product.

### **APPLICABLE REQUIREMENTS**

CSA Standard C22.2 No. 0-M1991 - General Requirements Canadian Electrical Code Part II.

CSA Standard C22.2 No.0.4-M2004 - Bonding of Electrical Equipment

CSA Standard C22.2 No.142-M1987 – Process Control Equipment

CSA Standard C22.2 No. 157-M1992 - Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations



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CSA Standard C22.2 No. 213-M1987 - Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

UL Standard 508, Seventeenth Edition – Industrial Control Equipment

UL Standard 913, Sixth Edition - Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations. (LS Series)

UL Standard 913, Seventh Edition - Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, II, III, Division 1, Hazardous (Classified) Locations. (GS Series)

ANSI/ISA-12.12.01-2007 – Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations